

FEB 4 2004

INTERNATIONAL SEARCH REPORT

Internal Application No
PCT/US 03/24117A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C23C16/00 C07D207/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HISASHI TANAKA AND OSAMU YAMAUCHI: "Über die Synthese und Chelatkomplexe von 2-Pyrrolylmethyleniminen. II." CHEMICAL & PHARMACEUTICAL BULLETIN, vol. 10, no. 6, 1962, pages 435-439, XP008025701 example I tables I,II	11,20,21
X	B EMMERT ET AL: "Über innere Komplexsalze einiger Pyrrol-Derivate" CHEMISCHE BERICHTE, vol. 62, 1929, pages 1733-1738, XP008025676 cited in the application page 1737	11,16

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the International search

15 December 2003

Date of mailing of the International search report

05/01/2004

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PCT/US 03/24117

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	YEH K-N ET AL: "SYNTHESIS AND PROPERTIES OF SOME METAL CHELATES OF 2-PYRROLEALDIMINES" INORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY, EASTON, US, vol. 6, no. 4, 1967, pages 830-833, XP000915350 ISSN: 0020-1669 cited in the application table III ---	11
X	HISASHI TANAKA AND OSAMU YAMAUCHI: "Über die Synthese und die Chelatkomplexe von N-2-Pyrrolylmethylenaminen. I." CHEMICAL & PHARMACEUTICAL BULLETIN, vol. 9, 1961, pages 588-592, XP008025628 tables I,II,III ---	11
X	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; KROWCZYNSKI, ADAM ET AL: "Metal complexes of pyrrole derivatives and method of their preparation" retrieved from STN Database accession no. 129:349117 XP002265131 abstract -& PL 173 979 B (UNIWERSYTET WARSZAWSKI, POL.) 29 May 1998 (1998-05-29) scheme 1 ---	11
X	EP 1 170 308 A (MITSUI CHEMICALS INC) 9 January 2002 (2002-01-09) page 35 -page 40 page 81 page 106; example 3 claim 10 ---	11
X	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; HONDA, KENJI ET AL: "Polymeric pyrrole derivatives. 9. Reactions between copper complexes containing pyrrole Schiff bases and 2,2-diphenyl-1-picrylhydrazyl" retrieved from STN Database accession no. 81:106212 XP002265132 abstract & NIPPON KAGAKU KAISHI (1974), (5), 972-6 ' ---	11

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; TOMONO, TSUGIKAZU ET AL: "Synthesis and polymerization of copper(II) and cobalt(III) complexes containing 3-(2-pyrrolylmethylenimino)prop-1-ene or p-(2-pyrrolylmethylenimino)styrene" retrieved from STN Database accession no. 81:50107 XP002265133 abstract & NIPPON KAGAKU KAISHI (1974), (3), 593-7 ,</p> <p>---</p>	11
A	<p>GORDON L EGGLETON ET AL: " Oxygen-17 and Carbon-13 Nuclear Magnetic Resonance Spectra of Thiophene- and Pyrrole-2-carboxaldehyde. Condensation Products Prepared From Ephedrine Derivatives" JOURNAL OF HETEROCYCLIC CHEMISTRY, vol. 27, no. 1853, 1990, pages 1853-1855, XP002265130 figure 1</p> <p>---</p>	1
A	<p>US 5 464 666 A (FINE STEPHEN M ET AL) 7 November 1995 (1995-11-07) claim 1</p> <p>---</p>	22
A	<p>US 3 594 216 A (CLEARY JAMES G ET AL) 20 July 1971 (1971-07-20) column 3; claim 1</p> <p>---</p>	22

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internati	Application No
PCT/US 03/24117	

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
PL 173979	B	20-02-1995	PL	300083 A1	20-02-1995
EP 1170308	A	09-01-2002	EP	1170308 A2	09-01-2002
			JP	2002080515 A	19-03-2002
			SG	96633 A1	16-06-2003
			US	2002099155 A1	25-07-2002
US 5464666	A	07-11-1995	DE	19603282 A1	08-08-1996
			GB	2297560 A ,B	07-08-1996
			JP	8319566 A	03-12-1996
US 3594216	A	20-07-1971	CA	965313 A1	01-04-1975